

STATEMENT OF BASIS

as required by LAC 33:IX.3109 for a draft permit for which a fact sheet under LAC 33:IX.3111 is not prepared, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0044652; AI 38212; PER20070001** to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. **THE APPLICANT IS:** Town of Mooringsport
Town of Mooringsport Water and Sewer System
Post Office Box 9
Mooringsport, Louisiana 71060

- II. **PREPARED BY:** Todd Franklin

- DATE PREPARED:** October 9, 2007

- III. **PERMIT ACTION:** reissue LPDES permit LA0044652, AI 38212; PER20070001

LPDES application received: August 31, 2007

EPA has not retained enforcement authority.

Previous LPDES permit effective: September 1, 2002
Previous LPDES permit expires: August 31, 2007

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Town of Mooringsport.

- B. The permit application does not indicate the receipt of industrial wastewater.

- C. The facility is located on LA Highway 169 in Mooringsport, Caddo Parish.

- D. The treatment facility consists of a three cell oxidation pond with clarification and filtration.

- E. Outfall 001

Discharge Location: Latitude 32° 41' 1" North
 Longitude 93° 57' 1" West

Description: treated sanitary wastewater

Design Capacity: 0.12 MGD

Type of Flow Measurement which the facility is currently using: Totalizing Meter

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V. RECEIVING WATERS:

The discharge is into an unnamed ditch; thence into Walnut Bayou; thence into Caddo Lake in Subsegment 100307 of the Red River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Subsegment 100307 of the Red River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Full	Full	Full	Full	N/A	Full	N/A	Full

^{1/}The designated uses and degree of support for Subsegment 100307 of the Red River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 100307 of the Red River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006, from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

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Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Mr. Todd Franklin
 Permits Division
 Department of Environmental Quality
 Office of Environmental Services
 P. O. Box 4313
 Baton Rouge, Louisiana 70821-4313

IX.

PROPOSED PERMIT LIMITS:

Subsegment 100307, Caddo Lake and James Bayou-Texas state line to Caddo Lake, is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

Final Effluent Limits:

Outfall 001

Limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
BOD ₅	10	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size.
TSS	15	15 mg/l	23 mg/l	

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.a, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

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2) pH

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time. (Limits as established through BPJ considering BCT for similar waste streams in accordance with LAC 33:IX.5905.C.).

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.

PREVIOUS PERMITS:

LPDES Permit No. LA0044652: Effective: September 1, 2002

Expired: August 31, 2007

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Monthly Avg.</u>	<u>Weekly Avg.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
BOD ₅	10 lb/day / 10 mg/l	15 mg/l	2/month	Grab
TSS	15 lb/day / 15 mg/l	23 mg/l	2/month	Grab
Fecal Coliform				
Colonies/100 ml	200	400	2/month	Grab
pH	Within the Range of 6.0-9.0 su		2/month	Grab

XI.

ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

A review of the files indicates the following most recent inspection performed for this facility.

Date – October 19, 2005

Inspector – LDEQ

Findings and/or Violations –

1. Complaint received concerning a sewage overflow near 9217 Caddo Lease Road in Mooringsport.
2. Mel Toalston stated approximately 3,000 gallons overflowed from the Agrus Street lift station.
3. Spill was due to an electrical malfunction at the lift station.
4. Lift was replaced and operating at satisfactory levels at the time of inspection.
5. Failure to report spill/overflow of sewage.
6. Spill entered complainant's pond, but not the downstream receiving waterbody.

B) Compliance and/or Administrative Orders

A review of the files indicates the following most recent enforcement action administered against this facility:

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LDEQ Issuance:

Consolidated Compliance Order & Notice of Potential Penalty

Enforcement Tracking No. WE-CN-01-0658

Date Issued – October 7, 2002

Findings of Fact:

1. The Respondent owns and/or operates a publicly owned wastewater treatment works located off of La. Highway 169, one-quarter mile east of Dilly Road, Caddo Parish, Louisiana. A Louisiana Water Discharge Permit System (LWDPS) permit WP4623 was issued by the Department on May 21, 1994, which expired on May 20, 1999. A National Pollutant Discharge Elimination System (NPDES) permit LA0044652 was issued by the EPA with an effective date of May 4, 1991, and which expired on May 3, 1996. In accordance with the assumption of the NPDES program, NPDES permit LA0044652 became a LPDES permit. An LPDES permit application was received on September 27, 2001, and was deemed administratively complete. The Respondent is authorized to discharge certain qualities and quantities of treated sanitary wastewater into Walnut Creek; thence into Caddo Lake, both waters of the state, under the terms and conditions of LPDES permit LA0044652, effective on September 1, 2002, and which expires on August 31, 2007.
2. A file review on September 18, 2002, revealed that the Respondent continued to submit DMRs after the expiration of LPDES permit LA0044652 which indicated continued discharges from the facility to waters of the state.
3. An inspection on July 20, 2001, revealed the following deficiencies:
 - A. DMRs have not been submitted since March 2000.
 - B. Facility representative could not provide any documentation of flow meter calibration.
 - C. Discharge from the facility was gray in color and smelled septic.

Order:

1. To immediately take all steps necessary to meet and maintain compliance with LPDES permit LA0044652.
2. To submit to the Enforcement Division a complete written report that shall include a detailed description of the circumstances of the cited violations, and the actions taken to achieve compliance with the Compliance Order.

C) DMR Review

A review of the discharge monitoring reports for the period beginning February 2004 through June 2006 has revealed the following violations (please note that the DMR for December 2004 was missing from the file):

Parameter	Outfall	Period of Excursion	Permit Limit	Reported Quantity
TSS, Monthly Avg.	001	April 2004	15 mg/l	16.2 mg/l
BOD ₅ , Monthly Avg.	001	May 2004	10 mg/l	11.1 mg/l
BOD ₅ , Monthly Avg.	001	June 2004	15 lbs/day	27.1 lbs/day
BOD ₅ , Monthly Avg.	001	June 2004	10 mg/l	12.6 mg/l
BOD ₅ , Weekly Avg.	001	June 2004	15 mg/l	15.7 mg/l
TSS, Monthly Avg.	001	June 2004	23 lbs/day	39.0 lbs/day
TSS, Monthly Avg.	001	June 2004	15 mg/l	17.0 mg/l
TSS, Monthly Avg.	001	July 2004	23 lbs/day	23.17 lbs/day

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BOD ₅ , Monthly Avg.	001	September 2004	10 mg/l	11.3 mg/l
TSS, Monthly Avg.	001	September 2004	15 mg/l	30.2 mg/l
TSS, Weekly Avg.	001	September 2004	23 mg/l	40.8 mg/l
TSS, Monthly Avg.	001	October 2004	15 mg/l	27.8 mg/l
TSS, Weekly Avg.	001	October 2004	23 mg/l	30.8 mg/l
Fecal Coliform, Weekly Avg.	001	October 2004	400 cfu/100 ml	2,400 cfu/100 ml
BOD ₅ , Monthly Avg.	001	November 2004	15 lbs/day	19.1 lbs/day
BOD ₅ , Monthly Avg.	001	November 2004	10 mg/l	12.6 mg/l
BOD ₅ , Weekly Avg.	001	November 2004	15 mg/l	17.1 mg/l
TSS, Monthly Avg.	001	November 2004	23 lbs/day	40.8 lbs/day
TSS, Monthly Avg.	001	November 2004	15 mg/l	27.8 mg/l
TSS, Weekly Avg.	001	November 2004	23 mg/l	34.4 mg/l
Fecal Coliform, Weekly Avg.	001	November 2004	400 cfu/100 ml	2,800 cfu/100 ml
TSS, Monthly Avg.	001	January 2005	15 mg/l	18.0 mg/l
TSS, Weekly Avg.	001	January 2005	23 mg/l	26.4 mg/l
TSS, Monthly Avg.	001	February 2005	23 lbs/day	210.6 lbs/day
TSS, Monthly Avg.	001	February 2005	15 mg/l	45.8 mg/l
TSS, Weekly Avg.	001	February 2005	23 mg/l	48.8 mg/l
TSS, Monthly Avg.	001	March 2005	15 mg/l	23.7 mg/l
TSS, Weekly Avg.	001	March 2005	23 mg/l	28.8 mg/l
TSS, Monthly Avg.	001	April 2005	23 lbs/day	31.9 lbs/day
TSS, Monthly Avg.	001	April 2005	15 mg/l	57.8 mg/l
TSS, Weekly Avg.	001	April 2005	23 mg/l	62.4 mg/l
BOD ₅ , Monthly Avg.	001	May 2005	10 mg/l	12.4 mg/l
BOD ₅ , Weekly Avg.	001	May 2005	15 mg/l	22.6 mg/l
TSS, Monthly Avg.	001	May 2005	15 mg/l	41.2 mg/l
TSS, Weekly Avg.	001	May 2005	23 mg/l	64.0 mg/l
TSS, Monthly Avg.	001	June 2005	15 mg/l	20.5 mg/l
TSS, Weekly Avg.	001	June 2005	23 mg/l	32.5 mg/l
BOD ₅ , Monthly Avg.	001	September 2005	10 mg/l	12.1 mg/l
TSS, Monthly Avg.	001	September 2005	15 mg/l	18.0 mg/l
Fecal Coliform, Weekly Avg.	001	October 2005	400 cfu/100 ml	870 cfu/100 ml
TSS, Monthly Avg.	001	December 2005	15 mg/l	16.4 mg/l
Fecal Coliform, Monthly Avg.	001	December 2005	200 cfu/100 ml	584.8 cfu/100 ml
Fecal Coliform, Weekly Avg.	001	December 2005	400 cfu/100 ml	1,660 cfu/100 ml
BOD ₅ , Weekly Avg.	001	January 2006	15 mg/l	17.2 mg/l
BOD ₅ , Monthly Avg.	001	February 2006	15 lbs/day	27.8 lbs/day
BOD ₅ , Monthly Avg.	001	February 2006	10 mg/l	20.0 mg/l
BOD ₅ , Weekly Avg.	001	February 2006	15 mg/l	30.0 mg/l
TSS, Monthly Avg.	001	February 2006	15 mg/l	16.4 mg/l
TSS, Weekly Avg.	001	February 2006	23 mg/l	26.4 mg/l
BOD ₅ , Monthly Avg.	001	March 2006	15 lbs/day	16.4 lbs/day
BOD ₅ , Monthly Avg.	001	April 2006	10 mg/l	25.1 mg/l
BOD ₅ , Weekly Avg.	001	April 2006	15 mg/l	25.3 mg/l
BOD ₅ , Monthly Avg.	001	May 2006	10 mg/l	22.0 mg/l
BOD ₅ , Weekly Avg.	001	May 2006	15 mg/l	22.6 mg/l
Fecal Coliform, Weekly Avg.	001	April 2006	400 cfu/100 ml	800 cfu/100 ml

XII.

ADDITIONAL INFORMATION:

LDEQ reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future. Additional limitations and/or restrictions are based upon water quality studies and can

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indicate the need for advanced wastewater treatment. Water quality studies of similar dischargers and receiving water bodies have resulted in monthly average effluent limitations of 5mg/L CBOD₅ and 2 mg/L NH₃-N. Prior to upgrading or expanding this facility, the permittee should contact LDEQ to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

The nearest drinking water intakes include Mooringsport and East Mooringsport. Both of these water intakes are located in Caddo Lake. The effluent from the Town of Mooringsport Water and Sewer System is discharged into an unnamed ditch; thence into Walnut Bayou before it reaches Caddo Lake; a distance of over one mile. Therefore, based on the size of the discharge and the distance from the nearest drinking water intake, there shall be no additional monitoring requirements placed into the permit.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.12 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD}_5: 8.34 \text{ lb/gal} \times 0.12 \text{ MGD} \times 10 \text{ mg/l} = 10 \text{ lbs/day}$$

At present, the Monitoring Requirements, Sample Types, and Frequency of Sampling as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

Effluent CharacteristicsMonitoring Requirements

	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow	Continuous	Recorder
BOD ₅	2/month	Grab
Total Suspended Solids	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used based upon lack of either an approved or required pretreatment program.

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report each year for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

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The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

XIII**TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV**REFERENCES:**

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2007.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Integrated Report (Section 305(b) and 303(d) Reports)," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2007.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2007.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Mooringsport, Town of Moringsport Water and Sewer System, August 28, 2007.